PATENT APPLICATION
File No: 00-56

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	Wayne R. Kindsvogel, Stavros Topouzis
Serial No.	:	09/925,055
Group Art Unit	:	1644
Examiner	:	
Filed	:	August 8, 2001
For	:	SOLUBLE ZCYTOR11 CYTOKINE RECEPTORS
Date Submitted	:	October 15, 2001

RESPONSE TO NOTICE TO FILE MISSING PARTS

Box Missing Parts
Commissioner for Patents
Washington, DC 20231

Sir:

Respectfully submitted herewith is the Combined Declaration and Power of Attorney signed and dated by Applicants for the above-captioned application. This submission is in response to the Notice to File Missing Parts dated October 4, 2001 (a copy thereof is attached hereto) and is being filed within two months of the date of the letter.

Also submitted herewith are a corrected sequence listing and a substitute sequence listing diskette. This submission is in response to the aforementioned Notice to File Missing Parts dated October 4, 2001.

In each case the sequences were designated "Artificial Sequence." Explanation of the source of genetic material is required (sections <220> to <223>), but was mistakenly omitted. The changes, per the Sequence Listing Error Summary, Item 11, (attached to Notice to File Missing Parts dated October 4, 2001), were made in accordance with the sequence listing rule 37 CFR §1.823, and with support in the originally filed application as follows:

- SEQ ID NO. 30 – Supported in SEQ ID NO. 29

These changes are supported in the originally filed application and hence include no new matter.

The content of the above-captioned application and the computer readable copy is the same and, where applicable, includes no new matter as required by 37 CFR 1.821-1.825.

Applicants claim small entity status. Please charge the total fee, estimated to be $65.00, to ZymoGenetics, Inc., Deposit Account No. 26-0290. A duplicate of this sheet is enclosed.

Respectfully submitted,

Jennifer K. Johnson, J.D.
Registration No. 43,696

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/925,055	08/08/2001	Wayne R. Kindsvogel	00-56

CONFIRMATION NO. 2607

FORMALITIES LETTER

OC000000006842991

ZymoGenetics, Inc
1201 Eastlake Avenue East
Seattle, WA 98102

Date Mailed: 10/04/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of $65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is $ 65.**

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- **For Rules Interpretation, call (703) 308-4216**
- **To Purchase PatentIn Software, call (703) 306-2600**
- **For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov**

A copy of this notice MUST be returned with the reply.

Customer Service Center
Initial Patent Examination Division (703) 308-1202
PART 2 - COPY TO BE RETURNED WITH RESPONSE

PATENT APPLICATION
File No: 00-56

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	Wayne R. Kindsvogel, Stavros Topouzis
Serial No.	:	09/925,055
Group Art Unit	:	1644
Examiner	:	
Filed	:	August 8, 2001
For	:	SOLUBLE ZCYTOR11 CYTOKINE RECEPTORS

CERTIFICATE OF MAILING UNDER 37 CFR 1.8(a)

Box Missing Parts
Commissioner for Patents
Washington, DC 20231

Sir:

I hereby certify that the attached correspondence comprising:

1. Return Postcard
2. Response to Notice to File Missing Parts (in duplicate)
3. Copy of Notice to File Missing Parts
4. Executed Combined Declaration and Power of Attorney
5. Sequence Listing Diskette compliant with 37 CFR 1.821-1.825
6. Paper Copy of Sequence Listing

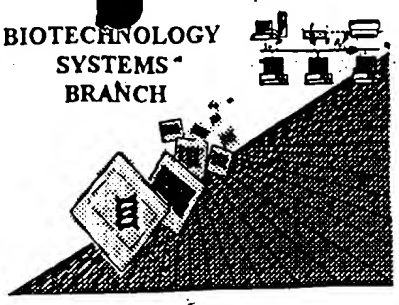
is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Box Missing Parts
Commissioner for Patents
Washington, DC 20231

on October 15, 2001.

Marianne Carello

Marianne Carello



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/925,055

Source: OIPE

Date Processed by STIC: 08/16/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** SERIAL NUMBER: 09/925,055

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	✓ Use of <220>	Sequence(s) 30 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC – Biotechnology Systems Branch – 06/04/2001

may

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

OIPE

RAW SEQUENCE LISTING DATE: 08/16/2001
PATENT APPLICATION: **US/09/925,055** TIME: 13:28:58

Input Set : **A:\00-56.txt**
Output Set: **N:\CRF3\08162001\I925055.raw**

Does Not Comply
Corrected Diskette Needed

See page 6 of 7A

```
      4 <110> APPLICANT: Kindsvogel, Wayne R.
      5       Topouzis, Stavros
      7 <120> TITLE OF INVENTION: SOLUBLE ZCYTOR11 CYTOKINE RECEPTORS
      9 <130> FILE REFERENCE: 00-56
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/925,055
C--> 11 <141> CURRENT FILING DATE: 2001-08-08
     11 <150> PRIOR APPLICATION NUMBER: US 60/223,827
     12 <151> PRIOR FILING DATE: 2000-08-08
     14 <150> PRIOR APPLICATION NUMBER: US 60/250,876
     15 <151> PRIOR FILING DATE: 2000-12-01
     17 <160> NUMBER OF SEQ ID NOS: 35
     19 <170> SOFTWARE: FastSEQ for Windows Version 3.0
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 2831
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Homo sapien
     26 <220> FEATURE:
     27 <221> NAME/KEY: CDS
     28 <222> LOCATION: (34)...(1755)
     30 <400> SEQUENCE: 1
     31  tagaggccaa gggagggctc tgtgccagcc ccg atg agg acg ctg ctg acc atc      54
     32                                       Met Arg Thr Leu Leu Thr Ile
     33                                        1               5
     35  ttg act gtg gga tcc ctg gct gct cac gcc cct gag gac ccc tcg gat      102
     36  Leu Thr Val Gly Ser Leu Ala Ala His Ala Pro Glu Asp Pro Ser Asp
     37          10                  15                  20
     39  ctg ctc cag cac gtg aaa ttc cag tcc agc aac ttt gaa aac atc ctg      150
     40  Leu Leu Gln His Val Lys Phe Gln Ser Ser Asn Phe Glu Asn Ile Leu
     41      25                  30                  35
     43  acg tgg gac agc ggg cca gag ggc acc cca gac acg gtc tac agc atc      198
     44  Thr Trp Asp Ser Gly Pro Glu Gly Thr Pro Asp Thr Val Tyr Ser Ile
     45  40                  45                  50                  55
     47  gag tat aag acg tac gga gag agg gac tgg gtg gca aag aag ggc tgt      246
     48  Glu Tyr Lys Thr Tyr Gly Glu Arg Asp Trp Val Ala Lys Lys Gly Cys
     49                  60                  65                  70
     51  cag cgg atc acc cgg aag tcc tgc aac ctg acg gtg gag acg ggc aac      294
     52  Gln Arg Ile Thr Arg Lys Ser Cys Asn Leu Thr Val Glu Thr Gly Asn
     53              75                  80                  85
     55  ctc acg gag ctc tac tat gcc agg gtc acc gct gtc agt gcg gga ggc      342
     56  Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr Ala Val Ser Ala Gly Gly
     57          90                  95                  100
     59  cgg tca gcc acc aag atg act gac agg ttc agc tct ctg cag cac act      390
     60  Arg Ser Ala Thr Lys Met Thr Asp Arg Phe Ser Ser Leu Gln His Thr
     61      105                 110                 115
     63  acc ctc aag cca cct gat gtg acc tgt atc tcc aaa gtg aga tcg att      438
     64  Thr Leu Lys Pro Pro Asp Val Thr Cys Ile Ser Lys Val Arg Ser Ile
     65  120                 125                 130                 135
```

Errored
Check diskette 8/16/01

RAW SEQUENCE LISTING DATE: 08/16/2001
PATENT APPLICATION: **US/09/925,055** TIME: 13:28:58

Input Set : **A:\00-56.txt**
Output Set: **N:\CRF3\08162001\I925055.raw**

```
67  cag atg att gtt cat cct acc ccc acg cca atc cgt gca ggc gat ggc      486
68  Gln Met Ile Val His Pro Thr Pro Thr Pro Ile Arg Ala Gly Asp Gly
69                  140                 145                 150
71  cac cgg cta acc ctg gaa gac atc ttc cat gac ctg ttc tac cac tta      534
72  His Arg Leu Thr Leu Glu Asp Ile Phe His Asp Leu Phe Tyr His Leu
73              155                 160                 165
75  gag ctc cag gtc aac cgc acc tac caa atg cac ctt gga ggg aag cag      582
76  Glu Leu Gln Val Asn Arg Thr Tyr Gln Met His Leu Gly Gly Lys Gln
77          170                 175                 180
79  aga gaa tat gag ttc ttc ggc ctg acc cct gac aca gag ttc ctt ggc      630
80  Arg Glu Tyr Glu Phe Phe Gly Leu Thr Pro Asp Thr Glu Phe Leu Gly
81      185                 190                 195
83  acc atc atg att tgc gtt ccc acc tgg gcc aag gag agt gcc ccc tac      678
84  Thr Ile Met Ile Cys Val Pro Thr Trp Ala Lys Glu Ser Ala Pro Tyr
85  200                 205                 210                 215
87  atg tgc cga gtg aag aca ctg cca gac cgg aca tgg acc tac tcc ttc      726
88  Met Cys Arg Val Lys Thr Leu Pro Asp Arg Thr Trp Thr Tyr Ser Phe
89                  220                 225                 230
91  tcc gga gcc ttc ctg ttc tcc atg ggc ttc ctc gtc gca gta ctc tgc      774
92  Ser Gly Ala Phe Leu Phe Ser Met Gly Phe Leu Val Ala Val Leu Cys
93              235                 240                 245
95  tac ctg agc tac aga tat gtc acc aag ccg cct gca cct ccc aac tcc      822
96  Tyr Leu Ser Tyr Arg Tyr Val Thr Lys Pro Pro Ala Pro Pro Asn Ser
97          250                 255                 260
99  ctg aac gtc cag cga gtc ctg act ttc cag ccg ctg cgc ttc atc cag      870
100  Leu Asn Val Gln Arg Val Leu Thr Phe Gln Pro Leu Arg Phe Ile Gln
101      265                 270                 275
103  gag cac gtc ctg atc cct gtc ttt gac ctc agc ggc ccc agc agt ctg      918
104  Glu His Val Leu Ile Pro Val Phe Asp Leu Ser Gly Pro Ser Ser Leu
105  280                 285                 290                 295
107  gcc cag cct gtc cag tac tcc cag atc agg gtg tct gga ccc agg gag      966
108  Ala Gln Pro Val Gln Tyr Ser Gln Ile Arg Val Ser Gly Pro Arg Glu
109                  300                 305                 310
111  ccc gca gga gct cca cag cgg cat agc ctg tcc gag atc acc tac tta     1014
112  Pro Ala Gly Ala Pro Gln Arg His Ser Leu Ser Glu Ile Thr Tyr Leu
113              315                 320                 325
115  ggg cag cca gac atc tcc atc ctc cag ccc tcc aac gtg cca cct ccc     1062
116  Gly Gln Pro Asp Ile Ser Ile Leu Gln Pro Ser Asn Val Pro Pro Pro
117          330                 335                 340
119  cag atc ctc tcc cca ctg tcc tat gcc cca aac gct gcc cct gag gtc     1110
120  Gln Ile Leu Ser Pro Leu Ser Tyr Ala Pro Asn Ala Ala Pro Glu Val
121      345                 350                 355
123  ggg ccc cca tcc tat gca cct cag gtg acc ccc gaa gct caa ttc cca     1158
124  Gly Pro Pro Ser Tyr Ala Pro Gln Val Thr Pro Glu Ala Gln Phe Pro
125  360                 365                 370                 375
127  ttc tac gcc cca cag gcc atc tct aag gtc cag cct tcc tcc tat gcc     1206
128  Phe Tyr Ala Pro Gln Ala Ile Ser Lys Val Gln Pro Ser Ser Tyr Ala
129                  380                 385                 390
131  cct caa gcc act ccg gac agc tgg cct ccc tcc tat ggg gta tgc atg     1254
```

RAW SEQUENCE LISTING DATE: 08/16/2001
PATENT APPLICATION: US/09/925,055 TIME: 13:28:58

Input Set : A:\00-56.txt
Output Set: N:\CRF3\08162001\I925055.raw

```
132  Pro Gln Ala Thr Pro Asp Ser Trp Pro Pro Ser Tyr Gly Val Cys Met
133               395                 400                 405
135  gaa ggt tct ggc aaa gac tcc ccc act ggg aca ctt tct agt cct aaa     1302
136  Glu Gly Ser Gly Lys Asp Ser Pro Thr Gly Thr Leu Ser Ser Pro Lys
137           410                 415                 420
139  cac ctt agg cct aaa ggt cag ctt cag aaa gag cca cca gct gga agc     1350
140  His Leu Arg Pro Lys Gly Gln Leu Gln Lys Glu Pro Pro Ala Gly Ser
141       425                 430                 435
143  tgc atg tta ggt ggc ctt tct ctg cag gag gtg acc tcc ttg gct atg     1398
144  Cys Met Leu Gly Gly Leu Ser Leu Gln Glu Val Thr Ser Leu Ala Met
145  440                 445                 450                 455
147  gag gaa tcc caa gaa gca aaa tca ttg cac cag ccc ctg ggg att tgc     1446
148  Glu Glu Ser Gln Glu Ala Lys Ser Leu His Gln Pro Leu Gly Ile Cys
149                 460                 465                 470
151  aca gac aga aca tct gac cca aat gtg cta cac agt ggg gag gaa ggg     1494
152  Thr Asp Arg Thr Ser Asp Pro Asn Val Leu His Ser Gly Glu Glu Gly
153               475                 480                 485
155  aca cca cag tac cta aag ggc cag ctc ccc ctc ctc tcc tca gtc cag     1542
156  Thr Pro Gln Tyr Leu Lys Gly Gln Leu Pro Leu Leu Ser Ser Val Gln
157           490                 495                 500
159  atc gag ggc cac ccc atg tcc ctc cct ttg caa cct cct tcc ggt cca     1590
160  Ile Glu Gly His Pro Met Ser Leu Pro Leu Gln Pro Pro Ser Gly Pro
161       505                 510                 515
163  tgt tcc ccc tcg gac caa ggt cca agt ccc tgg ggc ctg ctg gag tcc     1638
164  Cys Ser Pro Ser Asp Gln Gly Pro Ser Pro Trp Gly Leu Leu Glu Ser
165  520                 525                 530                 535
167  ctt gtg tgt ccc aag gat gaa gcc aag agc cca gcc cct gag acc tca     1686
168  Leu Val Cys Pro Lys Asp Glu Ala Lys Ser Pro Ala Pro Glu Thr Ser
169                 540                 545                 550
171  gac ctg gag cag ccc aca gaa ctg gat tct ctt ttc aga ggc ctg gcc     1734
174  Asp Leu Glu Gln Pro Thr Glu Leu Asp Ser Leu Phe Arg Gly Leu Ala
175               555                 560                 565
177  ctg act gtg cag tgg gag tcc tgaggggaat gggaaaggct tggtgcttcc       1785
178  Leu Thr Val Gln Trp Glu Ser
179           570
181  tccctgtccc tacccagtgt cacatccttg gctgtcaatc ccatgcctgc ccatgccaca   1845
182  cactctgcga tctggcctca gacgggtgcc cttgagagaa gcagagggag tggcatgcag   1905
183  ggcccctgcc atgggtgcgc tcctcaccgg aacaaagcag catgataagg actgcagcgg   1965
184  gggagctctg gggagcagct tgtgtagaca agcgcgtgct cgctgagccc tgcaaggcag   2025
185  aaatgacagt gcaaggagga aatgcaggga aactcccgag gtccagagcc ccacctccta   2085
186  acaccatgga ttcaaagtgc tcagggaatt tgcctctcct tgccccattc ctggccagtt   2145
187  tcacaatcta gctcgacaga gcatgaggcc cctgcctctt ctgtcattgt tcaaaggtgg   2205
188  gaagagagcc tggaaaagaa ccaggcctgg aaaagaacca gaaggaggct gggcagaacc   2265
189  agaacaacct gcacttctgc caaggccagg gccagcagga cggcaggact ctagggaggg   2325
190  gtgtggcctg cagctcattc ccagccaggg caactgcctg acgttgcacg atttcagctt   2385
191  cattcctctg atagaacaaa gcgaaatgca ggtccaccag ggagggagac acacaagcct   2445
192  tttctgcagg caggagtttc agaccctatc ctgagaatgg ggtttgaaag gaaggtgagg   2505
193  gctgtggccc ctggacgggt acaataacac actgtactga tgtcacaact ttgcaagctc   2565
194  tgccttgggt tcagcccatc tgggctcaaa ttccagcctc accactcaca agctgtgtga   2625
```

RAW SEQUENCE LISTING DATE: 08/16/2001
PATENT APPLICATION: **US/09/925,055** TIME: 13:28:58

Input Set : **A:\00-56.txt**
Output Set: **N:\CRF3\08162001\I925055.raw**

```
195  cttcaaacaa atgaaatcag tgcccagaac ctcggtttcc tcatctgtaa tgtggggatc   2685
196  ataacaccta cctcatggag ttgtggtgaa gatgaaatga agtcatgtct ttaaagtgct   2745
197  taatagtgcc tggtacatgg gcagtgccca ataaacggta gctatttaaa aaaaaaaaaa   2805
198  aaaaaaaaaa atagcggccg cctcga                                       2831
200 <210> SEQ ID NO: 2
201 <211> LENGTH: 574
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapien
205 <400> SEQUENCE: 2
206  Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His
207   1               5                  10                  15
208  Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser
209              20                  25                  30
210  Ser Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr
211          35                  40                  45
212  Pro Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp
213      50                  55                  60
214  Trp Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn
215  65                  70                  75                  80
216  Leu Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val
217                  85                  90                  95
218  Thr Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg
219              100                 105                 110
220  Phe Ser Ser Leu Gln His Thr Thr Leu Lys Pro Pro Asp Val Thr Cys
221          115                 120                 125
222  Ile Ser Lys Val Arg Ser Ile Gln Met Ile Val His Pro Thr Pro Thr
223      130                 135                 140
224  Pro Ile Arg Ala Gly Asp Gly His Arg Leu Thr Leu Glu Asp Ile Phe
225  145                 150                 155                 160
226  His Asp Leu Phe Tyr His Leu Glu Leu Gln Val Asn Arg Thr Tyr Gln
227                  165                 170                 175
228  Met His Leu Gly Gly Lys Gln Arg Glu Tyr Glu Phe Phe Gly Leu Thr
229              180                 185                 190
230  Pro Asp Thr Glu Phe Leu Gly Thr Ile Met Ile Cys Val Pro Thr Trp
231          195                 200                 205
232  Ala Lys Glu Ser Ala Pro Tyr Met Cys Arg Val Lys Thr Leu Pro Asp
233      210                 215                 220
234  Arg Thr Trp Thr Tyr Ser Phe Ser Gly Ala Phe Leu Phe Ser Met Gly
235  225                 230                 235                 240
236  Phe Leu Val Ala Val Leu Cys Tyr Leu Ser Tyr Arg Tyr Val Thr Lys
237                  245                 250                 255
238  Pro Pro Ala Pro Pro Asn Ser Leu Asn Val Gln Arg Val Leu Thr Phe
239              260                 265                 270
240  Gln Pro Leu Arg Phe Ile Gln Glu His Val Leu Ile Pro Val Phe Asp
241          275                 280                 285
242  Leu Ser Gly Pro Ser Ser Leu Ala Gln Pro Val Gln Tyr Ser Gln Ile
243      290                 295                 300
244  Arg Val Ser Gly Pro Arg Glu Pro Ala Gly Ala Pro Gln Arg His Ser
245  305                 310                 315                 320
```

RAW SEQUENCE LISTING DATE: 08/16/2001
PATENT APPLICATION: **US/09/925,055** TIME: 13:28:58

Input Set : **A:\00-56.txt**
Output Set: **N:\CRF3\08162001\I925055.raw**

```
246  Leu Ser Glu Ile Thr Tyr Leu Gly Gln Pro Asp Ile Ser Ile Leu Gln
247                  325                 330                 335
248  Pro Ser Asn Val Pro Pro Pro Gln Ile Leu Ser Pro Leu Ser Tyr Ala
249              340                 345                 350
250  Pro Asn Ala Ala Pro Glu Val Gly Pro Pro Ser Tyr Ala Pro Gln Val
251          355                 360                 365
252  Thr Pro Glu Ala Gln Phe Pro Phe Tyr Ala Pro Gln Ala Ile Ser Lys
253      370                 375                 380
254  Val Gln Pro Ser Ser Tyr Ala Pro Gln Ala Thr Pro Asp Ser Trp Pro
255  385                 390                 395                 400
256  Pro Ser Tyr Gly Val Cys Met Glu Gly Ser Gly Lys Asp Ser Pro Thr
257                  405                 410                 415
260  Gly Thr Leu Ser Ser Pro Lys His Leu Arg Pro Lys Gly Gln Leu Gln
261              420                 425                 430
262  Lys Glu Pro Pro Ala Gly Ser Cys Met Leu Gly Gly Leu Ser Leu Gln
263          435                 440                 445
264  Glu Val Thr Ser Leu Ala Met Glu Glu Ser Gln Glu Ala Lys Ser Leu
265      450                 455                 460
266  His Gln Pro Leu Gly Ile Cys Thr Asp Arg Thr Ser Asp Pro Asn Val
267  465                 470                 475                 480
268  Leu His Ser Gly Glu Glu Gly Thr Pro Gln Tyr Leu Lys Gly Gln Leu
269                  485                 490                 495
270  Pro Leu Leu Ser Ser Val Gln Ile Glu Gly His Pro Met Ser Leu Pro
271              500                 505                 510
272  Leu Gln Pro Pro Ser Gly Pro Cys Ser Pro Ser Asp Gln Gly Pro Ser
273          515                 520                 525
274  Pro Trp Gly Leu Leu Glu Ser Leu Val Cys Pro Lys Asp Glu Ala Lys
275      530                 535                 540
276  Ser Pro Ala Pro Glu Thr Ser Asp Leu Glu Gln Pro Thr Glu Leu Asp
277  545                 550                 555                 560
278  Ser Leu Phe Arg Gly Leu Ala Leu Thr Val Gln Trp Glu Ser
279                  565                 570
281 <210> SEQ ID NO: 3
282 <211> LENGTH: 211
283 <212> TYPE: PRT
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 3
287  Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser Ser
288   1               5                  10                  15
289  Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr Pro
290              20                  25                  30
291  Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp Trp
292          35                  40                  45
293  Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn Leu
294      50                  55                  60
295  Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val Thr
296  65                  70                  75                  80
297  Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg Phe
298                  85                  90                  95
```

<210> 30
<211> 484
<212> PRT
<213> Artificial Sequence

<400> 30

Error 1: Field 223 is required
When 213 response is Artificial Sequence,
A ~~non~~ mandatory description or explanation
is required in field 223.

The type of errors shown may exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY DATE: 08/16/2001
PATENT APPLICATION: **US/09/925,055** TIME: 13:28:59

Input Set : **A:\00-56.txt**
Output Set: **N:\CRF3\08162001\I925055.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1093 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1093 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: